IN THE CLAIMS

Please amend the claims as follows:

1. (Original) An authentication apparatus operable to produce a secure identifier, the apparatus comprising:

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- a processor;
- a clock coupled to the processor configurable to generate a time element;
- a memory element coupled to the processor configurable to store a private key and public key information;
 - at least one actuator coupled to the processor;
- a signature generator coupled to the processor operable to generate a digital signature, the digital signature being a function of the private key and the time element; and
- an emitter coupled to the signal generator operable to emit the secure identifier, the secure identifier comprising the digital signature, time element, and public key information.
- 2. (Original) The apparatus set forth in Claim 1, the signature generator further comprising:
 - a random number generator coupled to the processor to encrypt the digital signature.
- 3. (Original) The apparatus set forth in Claim 1, wherein the time element comprises a predetermined number of least significant bits of the time.
 - 4. (Original) The apparatus set forth in Claim 1, further comprising an input element coupled to the processor, the input element capable of receiving a personal identification number (PIN).
 - 5. (Original) The apparatus set forth in Claim 1, further comprising an input element coupled to the processor, the input element capable of receiving a challenge.
 - 6. (Original) The apparatus set forth in Claim 1, further comprising a display coupled to the processor, the display capable of displaying key identifiers.

- 7. (Original) The apparatus set forth in Claim 1, wherein the secure identifier emitted is emitted as an audio tone.
- 8. (Original) The apparatus set forth in Claim 1, wherein the secure identifier emitted is emitted as an optical signal.
- 9. (Original) The apparatus set forth in Claim 1, wherein the actuator is a pushbutton switch.
- 10. (Original) The apparatus set forth in Claim 1, wherein the actuator is a voice activated switch.
- 11. (Original) The apparatus set forth in Claim 1, wherein the public key information is a public key identifier.
- 12. (Original) The apparatus set forth in Claim 11, wherein the public key identifier is derived from the public key information.
- 13. (Original) The apparatus set forth in Claim 1, wherein the public key information is the public key.
- 14. (Original) The apparatus set forth in Claim 1, wherein the digital signature is encrypted using a personal identification number (PIN).
- 15. (Original) A method of authenticating, comprising:

generating a time element;

identifying a key identifier;

generating a digital signature;

generating a secure identifier as a function of the time element, the key identifier, the digital signature; and

emitting the secure identifier.

- 16. (Original) The method set forth in Claim 15, further comprising identifying a PIN, and wherein generating a digital signature is further a function of the PIN.
- 17. (Original) The method set forth in Claim 15, wherein the secure identifier emitted is emitted as an audible tone.
- 18. (Original) The method set forth in Claim 15, wherein the secure identifier emitted is emitted as an optical signal.
- 19. (Original) The method set forth in Claim 15, wherein the digital signature is derived from a private key.
- 20. (Original) An authentication receiver, comprising: a receiver configurable to receive a secure identifier, the secure identifier comprising:
- a digital signature, the digital signature comprising information derived from a private key,
 - a public key identifier; and
 - a time identifier; and
 - a verifier configurable to verify the secure identifier, the verifier comprising:
 - memory comprising information corresponding to the public key information received and time tolerance information;
 - a key retriever coupled to the memory and configurable to retrieve a public key corresponding to the public key identifier; and
 - a time verifier coupled to the memory and configurable to verify that the received time identifier falls within acceptable time tolerances.
- 21. (Original) The apparatus set forth in Claim 20, the secure identifier further comprises a PIN, and wherein the receiver is configurable to decrypt the digital signature using the PIN.

- 22. (Original) The apparatus set forth in Claim 20, wherein the key retriever compares the public key identifier received to public key information stored in memory.
- 23. (Original) The apparatus set forth in Claim 20, wherein the time tolerance information comprises information regarding clock drift.
- 24. (Original) The apparatus set forth in Claim 20, wherein the secure identifier is emitted as an audible tone.
- 25. (Original) The apparatus set forth in Claim 20, wherein the secure identifier is emitted as an optical signal.
- 26. (Original) A method of authenticating, comprising: receiving a secure identifier, the secure identifier comprising a digital signature, a key identifier, and a time identifier; and

verifying the secure identifier, verifying comprising:

verifying that the public key identifier received corresponds to known information regarding the public key identifier received; and

verifying the time identifier such that the time identifier received is within predetermined time tolerances.

- 27. (Original) The method set forth in Claim 26, the digital signature further comprises a PIN, and where receiving further comprises decrypting at least a portion of the digital signature using the PIN.
- 28. (Original) The method set forth in Claim 26, wherein the secure identifier received is received as an audible tone.
- 29. (Original) The method set forth in Claim 26, wherein the secure identifier received is received as an optical signal.

- 30. (Cancelled)
- 31. (Cancelled)
- 32. (Cancelled)
- 33. (Cancelled)
- 34. (Cancelled)
- 35. (Cancelled)
- 36. (Cancelled)
- 37. (Cancelled)
- 38. (Cancelled)
- 39. (Cancelled)
- 40. (Cancelled)
- 41. (Cancelled)
- 42. (Cancelled)
- 43. (Cancelled)

44. (Currently Amended) Apparatus for A-method of authenticating, comprising:

means for generating a time element;

means for identifying a key identifier;

means for generating a digital signature;

means for generating a secure identifier as a function of the time element, the key identifier, the digital signature; and

means for emitting the secure identifier.

- 45. (Currently Amended) The <u>apparatus</u> method set forth in Claim 44, further comprising means for identifying a PIN, and wherein means for generating a digital signature is further a function of the PIN.
- 46. (Currently Amended) The <u>apparatus</u> method set forth in Claim 44, wherein the secure identifier emitted is emitted as an audible tone.
- 47. (Currently Amended) The <u>apparatus</u> method set forth in Claim 44, wherein the secure identifier emitted is emitted as an optical signal.
- 48. (Currently Amended) The apparatus method set forth in Claim 44, wherein the digital signature is derived from a private key.
- 49. (Cancelled)
- 50. (Cancelled)
- 51. (Cancelled)
- 52. (Cancelled)
- 53. (Cancelled)

54. (Cancelled)

55. (Currently Amended) Apparatus for A method of authenticating, comprising: means for receiving a secure identifier, the secure identifier comprising a digital signature, a key identifier, and a time identifier; and

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means for verifying the secure identifier, verifying comprising:

means for verifying that the public key identifier received corresponds to known information regarding the public key identifier received; and

means for verifying the time identifier such that the time identifier received is within predetermined time tolerances.

- 56. (Currently Amended) The <u>apparatus</u> method set forth in Claim 55, the digital signature further comprises a PIN, and where means for receiving further comprises decrypting the digital signature using the PIN.
- 57. (Currently Amended) The <u>apparatus</u> method set forth in Claim 55, wherein the secure identifier received is received as an audible tone.
- 58. (Currently Amended) The <u>apparatus</u> method set forth in Claim 55, wherein the secure identifier received is received as an optical signal.